

```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_RNA
; LOCATION: (1)...(19)
; OTHER INFORMATION: siRNA sense strand
US-10-940-892-2571350

Query Match      13.2%; Score 19; DB 13; Length 19;
Score over Length 100.0%;
Best Local Similarity 84.2%;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      26 GGTATGAAAGCCAGCTACA 44
      ||:||:|||||||:||||
Db       1 GGUAUGAAAGCCAGCUACA 19
```

```
RESULT 16
US-10-714-333A-177846
; Sequence 177846, Application US/10714333A
; Publication No. US20070031844A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/10/714,333A
; CURRENT FILING DATE: 2003 11 14
```

; CURRENT FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 177846
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-714-333A-177846

Query Match	13.2%;	Score 19;	DB 17;	Length 19;	
Score over Length	100.0%;				
Best Local Similarity	78.9%;				
Matches 15;	Conservative 4;	Mismatches 0;	Indels 0;	Gaps 0;	

QY 119 AATGGGAGTTTCCAAGAGA 137
||:|||||:::|||||||
Db 1 AAUGGGAGUUUCCAAGAGA 19

RESULT 17

US-10-714-333A-177941
; Sequence 177941, Application US/10714333A
; Publication No. US20070031844A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; ADDITIONAL CONTACTS: Stables

; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/10/714,333A

; CURRENT FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 177941

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-10-714-333A-177941

Query Match	13.2%;	Score 19;	DB 17;	Length 19;
Score over Length	100.0%;			
Best Local Similarity	78.9%;			
Matches 15;	Conservative 4;	Mismatches 0;	Indels 0;	Gaps 0;

Qy 119 AATGGGAGTTTCCAAGAGA 137

||:|||||::|||||||

Db 1 AAUGGGAGUUUCCAAGAGA 19

RESULT 18

US-10-714-333A-182471

; Sequence 182471, Application US/10714333A

; Publication No. US20070031844A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; ADDITIONAL INFORMATION:

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; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/10/714,333A
; CURRENT FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 182471
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-714-333A-182471

```

```

Query Match      13.2%; Score 19; DB 17; Length 19;
Score over Length 100.0%;
Best Local Similarity 78.9%;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      55 GTGACCGGCTCCTCAGATA 73
      |:|||||:|:|:|:|
Db      1 GUGACCGGCUCCUCAGAU 19

```

```

RESULT 19
US-10-714-333A-182476
; CURRENT FILING DATE: 2003-11-14

```

```

; Sequence 182476, Application US/10714333A
; Publication No. US20070031844A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/10/714,333A
; CURRENT FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 182476
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-714-333A-182476

```

Query Match	13.2%;	Score 19;	DB 17;	Length 19;
Score over Length	100.0%;			
Best Local Similarity	68.4%;			
Matches 13;	Conservative 6;	Mismatches 0;	Indels 0;	Gaps 0;

```

QY      105 TGAATATGATCTCAAAATGG 123
        :|:|:|:|:|:|:|:|:|:|:|:|
Db       1 UGAUAUGAUCUCAAAUGG 19

```

RESULT 20

US-10-714-333A-182482

; Sequence 182482, Application US/10714333A

; Publication No. US20070031844A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/10/714,333A

; CURRENT FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 182482

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-10-714-333A-182482

Query Match

13.2%; Score 19; DB 17; Length 19;

Score over Length

100.0%;

Best Local Similarity

78.9%;

Matches 15; Conservative

4; Mismatches

0; Indels

0; Gaps

0;

QY 117 CAAATGGGAGTTTCCAAGA 135
||||:|||||::|||||
Db 1 CAAUGGGAGUUUCCAAGA 19

RESULT 21
US-10-714-333A-182490
; Sequence 182490, Application US/10714333A
; Publication No. US20070031844A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/10/714,333A
; CURRENT FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 182490
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-714-333A-182490

Query Match 13.2%; Score 19; DB 17; Length 19;
Score over Length 100.0%;
Best Local Similarity 68.4%;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 84 CTACGTTGATTTCAGAGAA 102
|:||||:||||:|||||
Db 1 CUACGUUGAUUUCAGAGAA 19

RESULT 22

US-10-714-333A-182505
; Sequence 182505, Application US/10714333A
; Publication No. US20070031844A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/10/714,333A
; CURRENT FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 182505
; LENGTH: 19
; TYPE: DNA


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;   TYPE: RNA
;   ORGANISM: Homo sapiens
US-10-714-333A-182505

Query Match      13.2%;   Score 19;   DB 17;   Length 19;
Score over Length      100.0%;
Best Local Similarity   52.6%;
Matches  10;   Conservative  9;   Mismatches  0;   Indels  0;   Gaps  0;

Qy      78 GTACTTCTACGTTGATTTC 96
      |:|:|:|:|:|:|:|:|:|:|:|
Db      1 GUACUUCUACGUUGAUUUC 19

```

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RESULT 23
US-10-940-892-1847772
; Sequence 1847772, Application US/10940892
; Publication No. US20050255487A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Read, Steven
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Methods and Compositions for Improving
; TITLE OF INVENTION: siRNA Functionality
; FILE REFERENCE: 13608PCT
; CURRENT APPLICATION NUMBER: US/10/940,892
; CURRENT FILING DATE: 2004-09-14
; NUMBER OF SEQ ID NOS: 2675299
; SOFTWARE: Proprietary
; SEQ ID NO 1847772

```